



Contribution ID: 340

Type: **Parallel Talk**

B(s)-mixing parameters from all-domain-wall-fermion simulations

Wednesday, August 2, 2023 9:20 AM (20 minutes)

We present an update of the study of bag parameters of neutral $B_{(s)}$ -meson mixing, which constrains the Standard Model as well as BSM scenarios. Our calculations use an all-domain-wall-fermion approach. We combine three lattice spacings ($1.7\text{GeV} \leq a^{-1} \leq 2.7\text{GeV}$) including 2 physical pion mass ensembles generated by RBC/UKQCD with ensembles with three finer lattice spacings ($2.5\text{GeV} \leq a^{-1} \leq 4.5\text{GeV}$) generated by the JLQCD collaboration. We will show preliminary non-perturbatively renormalised results for bag parameters and demonstrate that all required limits are controlled.

Topical area

Quark and Lepton Flavor Physics

Primary authors: TSANG, Justus Tobias (CERN); ERBEN, Felix; KANEKO, Takashi (KEK); MUKHERJEE, Rajnandini (University of Southampton)

Presenter: TSANG, Justus Tobias (CERN)

Session Classification: Quark and Lepton Flavor Physics